

Wisconsin Department of Natural Resources
SWIMS Project Summary

General Project Information

Project ID: ACEI20518

Name: VERMILLION LAKES ASSOCIATION: Vermillion Lakes 3 Year AIS Management

Type: Aquatic Invasives Grant

Subtype: Aquatic Invasives Control

Status: COMPLETE

Start Date: 4/15/2018

End Date: 6/30/2021

Purpose: Vermillion Lakes Association is sponsoring a 3-yr project to implement approved activities from the Vermillion Lakes Aquatic Plant Management Plan.

Project deliverables include GIS data & maps of areas monitored, aquatic plant monitoring results, AIS monitoring data in SWIMS, annual EWM management summary reports, and a final report documenting the project activities.

Specific project activities include: 1) EWM herbicide and manual control; 2) CLP herbicide control; 3) CLP and EWM bed mapping; 4) Pre-post treatment aquatic plant monitoring; 5) Herbicide concentration monitoring; 6) Volunteer AIS monitoring; 7) Water quality monitoring.

Special Conditions: 1) WDNR\2019s Aquatic Plant Management in Wisconsin guidance shall be followed for pre-post treatment plant monitoring; 2) Sponsor shall contact DNR immediately if a new AIS is found; 3) AIS monitoring personnel shall be trained and follow DNR approved protocols;4) Water quality and AIS monitoring data shall be entered in SWIMS database.

This scope summarizes the project detail provided in the application and does not negate tasks/deliverables described therein. Data, records, and reports, including GIS-based maps, and digital images, must be submitted to the Department in a format specified by the regional Lakes Biologist.

Objective:

Comments: Grantee is VERMILLION LAKES ASSOCIATION

Outcome:

Study Design:

QA Measures:

People						
Name	Role	Status	Start Date	End Date	Organization	Comments
Vermillion Lake Association,	GRANT_RECIPIENT	ACTIVE	4/15/2018	6/30/2021	Vermillion Lake Association	

Project Statuses			
Date	Reported By	Status	Comments

Actions				
Action	Detailed Description	Start Date	End Date	Status
APM Chemical Permit Request	Chemical Permit Details	4/9/2018	4/25/2018	APPROVED

Details: Parameter	Value/Amount	Units	Comments
APM Plan	Y		
Alternative - Drawdown	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Alternative - Dredging	N		
Alternative - Manual Removal	Y		
Alternative - Mechanical Harvesting	N		
Alternative - Nutrient Controls	Y		
Alternative - Sediment Screens	N		
Alternative - Why Not Drawdown	not possible		
Alternative - Why Not Dredging	not necessary		
Alternative - Why Not Mechanical	infestation too small		
Alternative - Why Not Sediment Screens	not approved in the current APM Plan		
Broad-leaved cattail (Typha latifolia)	N		
Business Location License	N/A		
CO - # days	12		
CO – Date Sent	4/25/2018		
CO-Date_Received	4/9/2018		
CONTROL_INVASIVES	Y		
CONTROL_OTHER	N		
Category 5 Certification Number	061742		
Chemical Permit ID	0		
Chemicals - Approved	Sculpin G, DMA 4, Shredder Amine 4, Aquathol K, and Aquathol Super K		
Chemicals Permitted Previous Year	Some		
Common arrowhead (Sagittaria latifolia)	N		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	Y		
Estimated Acres	7		
Eurasian water-milfoil (Myriophyllum spicatum)	Y		

7/25/2024

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Fee	195		
Field - # days	Y		
Field Issued By	Mark_Sundeen		
Filamentous Algae	N		
Improvement - swimming	N		
Lake Surface Area	215		
Large Duckweed (Spirodela polyrhiza)	N		
Large Scale Treatment Form	N		
Large-leaf pondweed (Potamogeton amplifolius)	N		
Maintain navigational channel	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Method of Application	bow mounted broadcast spreader and/or weighted submerged trailing hoses		
More than 1 Property Owner	Y		
Muskgrasses (Chara)	N		
NUISANCE_CAUSED_OTHER	N		
Native Plants	N		
Overflow Controlled	N		
PLSS_DIRECTION	W		
PLSS_RANGE	14		
PLSS_SECTION	08		
PLSS_TOWNSHIP	34		
Payment Number	5180		
Permit County	Barron		
Permit End Year	2018		
Permit Latitude	45.51276740		
Permit Longitude	-91.96125150		
Permit PLSS Section	08 T34N R14W		
Permit Start Year	2018		
Permit WBIC	2098200		
Pithophora	N		
Planktonic Algae	N		
Private Pond	N		
Purple loosestrife (Lythrum salicaria)	N		
Sensitive Area	Y		
Softstem bulrush (Schoenoplectus tabernaemontani)	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments		
Sogo pondweed (Stuckenia pectinata)	N				
Surface Water Discharge	Y				
TREATMENT_AREA	Lower Vermillion Lake				
Treatment Area Greater Than 5%	N				
Treatment Date	N				
Treatment Date	N				
WPDES Coverage	N				
Waterbody Type	LAKE				
Waterbody have Public Access	Y				
Wind Direction	061742				
Grant Awarded	Grant ACEI20518 awarded	4/15/2018	6/30/2021	COMPLETE	
APM Chemical Permit Request	Chemical permit details	4/8/2019	4/8/2019	APPROVED	

Details: Parameter	Value/Amount	Units	Comments		
APM Plan	Y				
Algae	N				
Algimycin PWF Algaecide / Cyanobactericide	N				
Alternative - Drawdown	N				
Alternative - Dredging	N				
Alternative - Manual Removal	Y				
Alternative - Mechanical Harvesting	N				
Alternative - Nutrient Controls	Y				
Alternative - Other	N				
Alternative - Sediment Screens	N				
Alternative - Why Not Drawdown	not possible				
Alternative - Why Not Dredging	not necessary				
Alternative - Why Not Mechanical	infestation too small				
Alternative - Why Not Other	nothing else being considered				
Alternative - Why Not Sediment Screens	not approved in current APM Plan				
Aqua Star	N				
AquaPro Herbicide	N				
AquaShade Aquatic Plant Growth Control	N				
AquaStrike	N				
Aquaneat Aquatic Herbicide	N				
Aquashadow Black Pond Colorant	N				
Aquathol K Aquatic Herbicide	Y				

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Aquathol Super K Granular Aquatic Herbicide	N		
Avast! SC Aquatic Herbicide	N		
Business Location License	N/A		
CO - # days	0		
CO – Date Sent	04/08/2019		
CONTROL_INVASIVES	Y		
CONTROL_OTHER	N		
Captain Liquid Copper Algaecide	N		
Captain XTR Liquid Copper Algaecide	N		
Category 5 Certification Number	061742		
Chemical Permit ID	0		
Chemicals Permitted Previous Year	All		
Chinook	N		
Clearcast (general)	N		
Clearigate	N		
Clipper Herbicide	N		
Clipper SC Aquatic Herbicide	N		
Comments	Proposed Chemicals (Under Chemical Control) left blank for reviewer to complete. 04/08/2019 – Jannusch		
Common reed (Phragmites australis)	N		
Common waterweed (Elodea canadensis)	N		
Common/Glossy Buckthorn	N		
Control - Algae	N		
Control - Emergent water plants	N		
Control - Floating water plants	N		
Control - Submerged water plants	Y		
Coontail (Ceratophyllum demersum)	N		
Curly-leaf pondweed (Potamogeton crispus)	N		
Current	N		
Cutrine-Plus Algaecide and Herbicide	N		
Cutrine-Plus Granular Algaecide	N		
Cutrine-Ultra Algaecide / Herbicide / cyanobactericide	N		

Wisconsin Department of Natural Resources

SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
DMA 4 IVM Herbicide	N		
Earthtec Algaecide / Bactericide	N		
Element 3A Herbicide	N		
Estimated Acres	3.04866850321396		
Eurasian water-milfoil (Myriophyllum spicatum)	N		
Fee	120		
Field - Date Issued	04/23/2019		
Field - Date Received	04/08/2019		
Field Issued By	Mark_Sundeen		
Flowering Rush	N		
Flumioxazin 51% WDG - NonCrop	N		
Formula F-30 Algae Control	N		
Garlon 3A Herbicide	N		
Green Clean (general)	N		
Habitat (general)	N		
Harpoon (general)	N		
Harvester Landscape and Aquatic Herbicide	N		
Havoc Amine	N		
Hybrid Cattail	N		
Hybrid Watermilfoil	N		
Hydrothol 191 Aquatic Algicide and Herbicide	N		
Hydrothol Granular Aquatic Algaecide and Herbicide	N		
Improvement - swimming	N		
Japanese Knotweed	N		
K-Tea Aquatic Algaecide	N		
Komeen Aquatic Herbicide	N		
Komeen Crystal Aquatic Herbicide	N		
Lake Surface Area	215		
Large Duckweed (Spirodela polyrhiza)	N		
Maintain navigational channel	N		
Maintain private access - boating	N		
Maintain private access - fishing	N		
Method of Application	Injection		
Milestone Herbicide	N		
More than 1 Property Owner	Y		

Wisconsin Department of Natural Resources

SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
NUISANCE_CAUSED_OTHER	N		
Naiad	N		
Narrow-Leaf Cattail	N		
Nautique Aquatic Herbicide	N		
Navigate	N		
Navitrol DPF Aquatic Herbicide	N		
Navitrol Landscape and Aquatic Herbicide	N		
Nutri-Sorb	N		
Orb-3 (general)	N		
Overflow Controlled	N		
PLSS_DIRECTION	N/A		
PLSS_RANGE	14		
PLSS_SECTION	08		
PLSS_TOWNSHIP	34		
Payment Number	WP-00017758		
Permit County	Barron		
Permit End Year	2019		
Permit Latitude	45.516		
Permit Longitude	-91.97		
Permit PLSS Section	0834N14		
Permit Start Year	2019		
Permit WBIC	2098200		
Phycomycin SCP Algaecide and Oxidizer	N		
Polaris	N		
Polaris AC	N		
Pond-Klear	N		
Pondweeds	N		
Private Pond	N		
ProcellaCOR EC	N		
Purple loosestrife (Lythrum salicaria)	N		
Reed Canary Grass	N		
Reed Manna Grass	N		
Refuge Herbicide	N		
Renovate 3	N		
Renovate LZR Aquatic Herbicide	N		
Renovate LZR Max Aquatic Herbicide	N		
Renovate Max G Aquatic Herbicide	N		

Wisconsin Department of Natural Resources SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Renovate OTF Aquatic Herbicide	N		
Reward Landscape and Aquatic Herbicide	N		
Rodeo Herbicide	N		
Roundup Custom for Aquatic & Terrestrial Use	N		
SCI-62 Algicide / Bactericide	N		
SP_Document_ID	YTHQS767HR6T-42-511309		
Sculpin G Aquatic Herbicide	Y		
SeClear (general)	N		
SeClear G Algaecide and Water Quality Enhancer	N		
Sensitive Area	Y		
SharePoint_Number	AP-IP-NO-2019-3-X04-06T10-12-59		
Shoreklear-Plus Aquatic Herbicide	N		
Shredder Amine 4	Y		
Sonar A.S.	N		
Sonar Genesis Aquatic Herbicide	N		
Sonar H4C Aquatic Herbicide	N		
Sonar PR Precision Release	N		
Sonar Q Aquatic Herbicide	N		
Sonar RTU Aquatic Weed Herbicide	N		
Sonar SRP Aquatic Herbicide	N		
SonarOne Aquatic Herbicide	N		
Starry Stonewort	N		
Stingray Aquatic Herbicide	N		
Surface Water Discharge	Y		
Symmetry NXG	N		
TREATMENT_AREA	Lower Vermillion Lake		
Touchdown Pro	N		
Treatment Area Greater Than 5%	N		
Tribune Herbicide	N		
WPDES Coverage	N		
Waterbody Type	Lake		
Waterbody have Public Access	Y		
Weedar 64 Broadleaf Herbicide	N		
Weedestroy AM-40 Amine Salt - Selective Weed Killer	N		
Wind Direction	061742		

Wisconsin Department of Natural Resources

SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Yellow Floating Heart	N		
Yellow Iris	N		
APM Chemical Treatment Record		5/29/2019	COMPLETE
Details: Parameter	Value/Amount	Units	Comments
Air Temperature	75		
Air Temperature Units	F		
Aquathol K Acres	.67		
Aquathol K Gallons	11.3		
Aquathol, # Acres Gallons	1.98		
Aquathol, # Pounds	47.2		
COONTAIL_SITE	all		
CURLY_LEAF_PONDWEED_SITE	all		
Contains Herbicide totals	Y		
Coontail (Ceratophyllum demersum)	SP		
Curly-leaf pondweed (Potamogeton crispus)	SP		
Duration of Chemical Residualts	24 hours		
EURASIAN_WATERMILFOIL_SITE	all		
Eurasian water-milfoil (Myriophyllum spicatum)	TS		
FLAMENTOUS_ALGAE_SITE	all		
Filamentous Algae	SP		
Herbicide Treatment and Water Use Restriction Signs Posted in Accordance with NR 107?	Y		
Name_supervisor	Tom Margotto (lake riparian)		
Onsite Supervision	No		
Permit County	Barron		
Permit Year	2018		
Person Completing Form	Dale Dressel		
Sculpin G Acres	.67		
Sculpin G Pounds	350.5		
Treatment Date	06/04/2018		
Treatment End Time	18:00		
Treatment Start Time	16:00		
WHITE_WATER_LILY_SITE	all		
Water Temperature	66		
Water Temperature Units	F		
Water Use Restriction - Animal Water	N		

Wisconsin Department of Natural Resources
SWIMS Project Summary

Details: Parameter	Value/Amount	Units	Comments
Water Use Restriction - Crop Irrigation	N		
Water Use Restriction - Drinking Water	N		
Water Use Restriction - Fish Consumption	N		
Water Use Restriction - None	N		
Water Use Restriction - Other Irrigation	N		
Water Use Restriction - Swimming	N		
White water lily (Nymphaea odorata)	SP		
Wind Direction	W		
Wind Speed	3-6		

Monitoring Stations

Station ID	Name	Comments
033185	Lower Vermillion Lake - Deep Hole	
033195	Upper Vermillion Lake - Center	

Assessment Units

WBIC	Segment	Local Name	Official Name
2098200	1	Lower Vermillion Lake	Lower Vermillion Lake
2098800	1	Upper Vermillion Lake	Upper Vermillion Lake

Lab Account Codes

Account Code	Description	Start Date	End Date
--------------	-------------	------------	----------

Forms

Form Code	Form Name
-----------	-----------

Methods

Method Code	Method Description
-------------	--------------------

Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
6/25/2018 10:00	COMPLETE	033195	033195	Upper Vermillion Lake - Center
8/22/2018 12:00	COMPLETE	UPPER VERMILLION	033195	Upper Vermillion Lake - Center
10/15/2018 13:30	COMPLETE	LOWER VERMILLION	033185	Lower Vermillion Lake - Deep Hole
10/16/2018 13:45	COMPLETE	UPPER VERMILLION	033195	Upper Vermillion Lake - Center
4/28/2019 14:15	COMPLETE	NA	033195	Upper Vermillion Lake - Center
4/28/2019 15:05	COMPLETE	NA	033185	Lower Vermillion Lake - Deep Hole

7/25/2024

Wisconsin Department of Natural Resources SWIMS Project Summary

6/30/2019 21:00	COMPLETE	UPPER VERMILLION	033195	Upper Vermillion Lake - Center
7/27/2019 13:30	COMPLETE	UPPER VERMILLION LAK	033195	Upper Vermillion Lake - Center
8/25/2019 19:00	COMPLETE	UPPER VERMILLION LAK	033195	Upper Vermillion Lake - Center
10/31/2019 13:00	COMPLETE	NA	033195	Upper Vermillion Lake - Center
10/31/2019 13:45	COMPLETE	NA	033185	Lower Vermillion Lake - Deep Hole
5/27/2020 12:00	COMPLETE	UPPER VERMILLION LAK	033195	Upper Vermillion Lake - Center
6/21/2020 15:00	COMPLETE	UPPER VERMILLION	033195	Upper Vermillion Lake - Center
7/26/2020 20:00	COMPLETE	NA	033195	Upper Vermillion Lake - Center
8/30/2020 15:30	COMPLETE	NA	033195	Upper Vermillion Lake - Center
9/13/2020 11:30	COMPLETE	NA	033185	Lower Vermillion Lake - Deep Hole
9/27/2020 17:00	COMPLETE	NA	033195	Upper Vermillion Lake - Center
10/7/2020 11:00	COMPLETE	NA	033185	Lower Vermillion Lake - Deep Hole
10/25/2020 12:30	COMPLETE	NA	033195	Upper Vermillion Lake - Center

Documents

Title	Description	Author	Published	Comments
ACEI20518_APM Report_Vermillion_03312020	2019 AQUATIC PLANT MANAGEMENT IMPLEMENTATION SUMMARY REPORT	LEAPS	3/31/2020	
ACEI20518_APM Report_Vermillion_05242019	2018 AQUATIC PLANT MANAGEMENT IMPLEMENTATION SUMMARY REPORT	LEAPS	5/24/0019	
EWM and CLP Pre/Posttreatment and Fall Bed Mapping Surveys		Onterra	10/29/2019	
EWM and Curly Leaf Pondweed - Pre/Posttreatment Surveys		Matthew S. Berg	7/2/2020	
Eurasian water-milfoil (Myriophyllum spicatum) and Curly-leaf pondweed (Potamogeton crispus) Pre/Posttreatment Surveys - Lower Vermillion Lake, Barron County	On June 4th, we conducted a pretreatment survey to gather baseline data from the scheduled treatment areas and to allow LEAPS and the VLA to finalize treatment plans. Following the herbicide application that occurred later that same day, we conducted a June 23rd posttreatment survey to evaluate the effectiveness of the treatment. This report is the summary analysis of these two field surveys.	Matthew S. Berg, Endangered Resource Services, LLC	6/23/2018	

Wisconsin Department of Natural Resources
SWIMS Project Summary

Lower Vermillion Lake, Barron County 2018 Pretreatment/Posttreatment PI Survey Comparison [Excel Sheet]	Comparison of the data collected from PI surveys on Lower Vermillion Lake, Barron County in June of 2018.		6/23/2018	
Lower Vermillion Lake, Barron County Posttreatment PI Survey [Excel Sheet]	PI Survey data from a posttreatment PI survey on Lower Vermillion Lake.	Matthew S. Berg and Hallie M. Jensen	6/23/2018	
Lower Vermillion Lake, Barron County Pretreatment PI Survey [Excel Sheet]	PI Survey data from a pretreatment PI survey on Lower Vermillion Lake.	Matthew S. Berg and Hallie M. Jensen	6/4/2018	
Vermillion Lakes Barron County - 2020 Aquatic Plant Management Implementation Summary		Dave Blumer	1/21/2021	

Budget

Combined Budgets:

Combined WSLH:

Combined Total: \$0.00

Funding

Organization	Source	Type	Amount	Start Date	End Date
--------------	--------	------	--------	------------	----------